

Trusted Connectivity Alliance

2026 Strategic and Technical Roadmap

As digital transformation drives the expansion of the SIM ecosystem, Trusted Connectivity Alliance (TCA) brings the industry together to enable trust in a connected future.

TCA's strategic priorities for 2026 include:

Being the Representative Voice of the SIM Industry

Our extensive membership means TCA is uniquely placed to publish exclusive SIM market data and insights gathered from our members through our quarterly Market Monitoring Process (MMP). By giving a clear indication of how the global SIM industry is performing and transforming, it supports informed decision-making and strategic planning among our members and those who subscribe to our market intelligence.

In 2026, we are committed to enhancing the MMP to support members and industry by delivering high-quality, timely and relevant data as the only trusted source of global SIM and eSIM shipment, platform and transaction data. We will do this by:

- Seeking broader representation within TCA of SIM and eSIM industry participants. This will increase the data input to our MMP and provide a more accurate view of the global market.
- Reviewing the relevancy of the data we collect and publish to ensure that we are adding value through our insights.
- Making the data collation process easier and quicker.

Elsewhere, we will use our collective footprint to support unified SIM industry responses on key issues and regulatory initiatives, such as the European Union's Cyber Resilience Act (CRA).

Enabling the IoT through eSIM Technology

GSMA's eSIM IoT Specification (SGP.32) offers a dedicated standard for remotely provisioning and managing IoT devices. It has led to eSIM technology becoming a key enabler of the IoT across established and emerging use-cases.



Yet SGP.32 introduces new ecosystem roles: the eSIM IoT Remote Manager (eIM) and the IoT Profile Assistant (IPA). The specification is also very flexible to allow for multiple implementation options and various deployment scenarios.

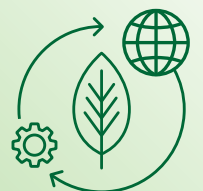
While flexibility is necessary to reflect the diversity of IoT use-cases, this, along with the new roles, poses new interoperability challenges. As SGP.32 adoption builds, TCA is committed to bridging gaps in the current GSMA standards and testing infrastructure to promote safe, reliable and consistent IoT deployments in the field. This includes providing SGP.32 implementation guidance to address common challenges, as well as exploring the potential to develop a dedicated functional certification programme for the eIM and a reference implementation for the IPA.

Supporting Sustainable Connectivity

Mobile operators, connectivity providers and device manufacturers have ambitious sustainability goals. SIM and eSIM providers have responded through innovation and are delivering more eco-friendly products to help them realise these goals and meet climate commitments.

Yet there are different ways of assessing the environmental impact of products. Which is why throughout 2026, TCA is prioritising the development of a consistent approach for providers to assess and communicate the environmental performance of their SIM and eSIM products. We are working to increase trust, transparency, and informed decision-making by ensuring that environmental claims made in relation to these products are backed by credible, reliable and objective methodologies.

TCA will also work to support industry efforts to reduce plastic waste and associated emissions – such as the growing adoption of half SIM formats and the use of eco-friendly raw materials.



TCA's technical priorities for 2026 include:



eSIM Working Group

Mission: To evolve the TCA eUICC Profile Package: Interoperable Format Specification (IPP) to meet new market requirements in close collaboration with other industry bodies, including 3GPP, ETSI, GlobalPlatform and GSMA.

The IPP Technical Specification is used in every single eSIM deployed in the field to standardise the format for remotely loading eSIM profiles. The associated IPP Test Specification provides globally standardised test cases to ensure the eSIM profile is correctly loaded. It is integrated into the GlobalPlatform-approved test suite, which is part of the GSMA Consumer and IoT eSIM compliance programmes and referenced in GSMA's Test Specifications.

Chair: Denis Praca, Thales.
Eligible TCA members can join here.

2026 Priorities:

- Publish Version 3.5 of the IPP Technical Specification, which includes support for 3GPP Release 19.
- Publish Version 3.5 of the IPP Test Specification.
- Support the exploration of an eIM functional certification programme and IPA reference implementation.



Sustainability Working Group

Mission: To promote more sustainable solutions and practices across the connectivity ecosystem.

Chair: Frédéric Moreira, IDEMIA.
Eligible TCA members can join here.

2026 Priorities:

- Publish the first industry-led, common lifecycle assessment methodologies to provide a consistent and reliable approach for determining the environmental impact of SIM and eSIM products.



IoT Remote SIM Provisioning (RSP) Working Group

Mission: To shape the development of eSIM-related specifications to address an evolving market and the needs of the IoT. The group collaborates with GSMA and contributes to its eSIM Working Groups.

Chair: Saïd Gharout, Kigen.
Eligible TCA members can join here.

2026 Priorities:

- Provide SGP.32 technical implementation guidelines to address key deployment scenarios and operations.
- Support the exploration of an eIM functional certification programme and IPA reference implementation.



Interoperability Working Group

Mission: To create, enhance and promote guidelines and software development tools that reduce complexity and maintain field proven interoperability. The group also produces TCA's acclaimed 'Stepping Stones' series, which provides recommendations to support the development and deployment of SIM-based technologies.

Chair: Amedeo Veneroso, STMicroelectronics.
Eligible TCA members can join here.

2026 Priorities:

- Publish 'Stepping Stones for eSIM IoT' to provide recommendations for increasing eSIM and eIM interoperability.
- Explore opportunities to enhance eSIM applet security.
- Continue to enhance the TCALoader tool – which enables mobile operators and application developers to download, install and manage applications on the SIM and eSIM eUICC to test interoperability across different deployments.



► Enabling trust in a connected future ◀

About Trusted Connectivity Alliance

Trusted Connectivity Alliance (TCA) is a global industry association working to enable trust in a connected future.

The organisation evolved from the SIMalliance, reflecting the continued expansion of the global SIM industry and the need for broader collaboration. Its members are leading providers of secure connectivity solutions for consumer, IoT and M2M devices. This spans Tamper Resistant Element (TRE) technologies including SIM, eSIM, integrated SIM, embedded Secure Element (eSE) and integrated Secure Element (iSE), as well as hardware and software provisioning and other personalisation services.



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